



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Steven I. Ross, Jeffrey G. MacAllister and Julie F. Alweis

Application No.: 10/044,464 Group Art Unit: 2641

Filed: January 10, 2002 Examiner: Not Assigned

For: SYSTEM AND METHOD FOR DERIVING NATURAL LANGUAGE  
REPRESENTATION OF FORMAL BELIEF STRUCTURES

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the  
United States Postal Service with sufficient postage as First Class Mail in  
an envelope addressed to Assistant Commissioner for Patents, P.O. Box  
2327, Arlington, VA 22202

on 4/8/02 Ellen T. Spear  
Date Signature  
Ellen T. Spear  
Typed or printed name of person signing certificate

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TRANSMITTAL OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND  
CORRESPONDENCE ADDRESS AND STATEMENT UNDER 37 C.F.R. § 3.73(b)

Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

Please file the enclosed Power of Attorney or Authorization of Agent and  
Correspondence Address and Statement Under 37 C.F.R. § 3.73(b) with a copy of the  
Assignment (two documents) in the above-identified patent application.

Respectfully submitted,

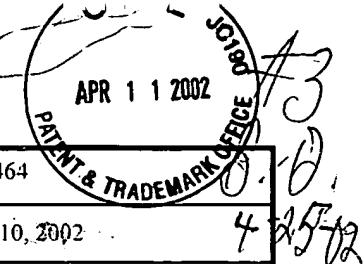
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By J. Scott Southworth  
J. Scott Southworth  
Registration No. 39,382  
Telephone: (978) 341-0036  
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Concord, MA 01742-9133  
Dated: April 8, 2002

## HAMILTON, BROOK, SMITH &amp; REYNOLDS, P.C.

APR 11 2002



**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT AND  
CORRESPONDENCE ADDRESS**

<i>Application Number</i>	10/044,464
<i>Filing Date</i>	January 10, 2002
<i>First Named Inventor</i>	Steven I. Ross
<i>Group Art Unit</i>	2641
<i>Examiner Name</i>	Not Assigned
<i>Attorney Docket Number</i>	1280.2006-000 (LOT8-2001-0008)

I/We hereby appoint

- the attorneys/agents associated with Customer No. 021005  
 Practitioner(s) named below:

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as my/our attorneys/agents to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

The correspondence address for the above-identified application is:

- Customer Number 021005  
 Hamilton, Brook, Smith & Reynolds, P.C.  
 530 Virginia Road  
 P.O. Box 9133  
 Concord, Massachusetts 01742-9133  
 Other \_\_\_\_\_

Please direct all telephone calls and facsimiles to:

Name Mary Lou Wakimura Tel. No. 978-341-0036 Fax No. 978-341-0136

I am the:

- Applicant/Inventor.  
 Authorized representative of the Assignee of the entire interest. See 37 C.F.R. 3.71. A Statement under 37 C.F.R. §3.73(b) is enclosed.  
 Authorized representative of an assignee together with [ ] of the entire interest. A separate Statement under 37 C.F.R. § 3.73(b) is enclosed.

**SIGNATURE of Applicant or Assignee of Record**

Name	<u>Stephen T. Keohane</u>
Signature	<u>Steph T. Keohane</u>
Date	<u>April 02, 2002</u>

Total of [ 1 ] forms are submitted.



Docket No. 30.2006-000 (LOT8-2001-0008)

STATEMENT UNDER 37 C.F.R. § 3.73(b)

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Applicant(s): Steven I. Ross, Jeffrey G. MacAllister and Julie F. Alweis

Application No.: 10/044,464 Filed: January 10, 2002

For: SYSTEM AND METHOD FOR DERIVING NATURAL LANGUAGE REPRESENTATION OF FORMAL BELIEF STRUCTURES

International Business Machines Corporation, a corporation,  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. [X] the assignee of the entire right, title and interest in the patent application identified above; or  
B. [ ] an assignee together with [ ] of the entire right, title and interest in the patent application identified above. A separate Statement under 37 CFR § 3.73(b) is being submitted.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. [X] An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or a copy thereof is attached.

OR

- B. [ ] A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: March 19, 2002

Name: Stephen T. Kohane

Title: Intellectual Property Law Counsel - Lotus Software

Signature: Stephen T. Kohane

**COPY**

Docket No. 1280006-000 (LOT8-2001-0008)

Joint

ASSIGNMENT

WHEREAS, we, **Steven I. Ross, Jeffrey G. MacAllister, and Julie F. Alweis**, have invented a certain improvement in **SYSTEM AND METHOD FOR DERIVING A NATURAL LANGUAGE REPRESENTATION OF FORMAL BELIEF STRUCTURES** described in an application for Letters Patent of the United States, the specification of which:

[X] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[ ] was filed on [ ] as Application No. [ ];

[ ] was patented under U.S. Patent No. [ ] on [ ].

WHEREAS, **International Business Machines Corporation** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of New York**, and having a usual place of business at **New Orchard Road, Armonk, New York 01504**, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

---

Inventor Steven I. Ross Date 1/8/02  
Steven I. Ross

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Witness Catherine Marshall Catherine Marshall Ross

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Witness Robert C. Primes Robert C. Primes

Address 1611 Graham Lane  
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Inventor \_\_\_\_\_ Date \_\_\_\_\_  
Jeffrey G. MacAllister

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Inventor Julie F Alweis Date 1/8/02  
Julie F. Alweis

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Witness DHC Robert C. Arnes

Address 1 Bill Grubum Lane  
Millbury, MA 01537

Witness Elizabeth A. Brownholtz  
Address 145 Lovejoy Rd  
Andover, MA 01810

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Joint

ASSIGNMENT

WHEREAS, we, **Steven I. Ross, Jeffrey G. MacAllister, and Julie F. Alweis**, have invented a certain improvement in **SYSTEM AND METHOD FOR DERIVING A NATURAL LANGUAGE REPRESENTATION OF FORMAL BELIEF STRUCTURES** described in an application for Letters Patent of the United States, the specification of which:

- [X] is being executed on even date herewith and is about to be filed in the United States Patent Office;
- [ ] was filed on [ ] as Application No. [ ];
- [ ] was patented under U.S. Patent No. [ ] on [ ].

WHEREAS, **International Business Machines Corporation** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of New York**, and having a usual place of business at **New Orchard Road, Armonk, New York 01504**, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

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Inventor \_\_\_\_\_ Date \_\_\_\_\_  
Steven I. Ross

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Witness \_\_\_\_\_

Address \_\_\_\_\_  
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Witness \_\_\_\_\_

Address \_\_\_\_\_  
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Inventor Jeffrey G. MacAllister Date 1/8/2002

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Inventor \_\_\_\_\_ Date \_\_\_\_\_  
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